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FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF SECRETARY

September 22, 1994

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Mr. William Caton
Acting Secretary
Federal Communications Commission
1919 M Street, N.W., Room 222
Washington, DC 20554

Reference: CC Docket No. 92-166 ✓
ET Docket No. 90-314

Dear Mr. Caton:

Pursuant to Section 1.1206 of the Commission's rules and regulations, Motorola hereby reports that an ex parte presentation was made by representatives of Motorola on September 16, 1994 to Commissioner Rachelle Chong, Jane Mago and other staff members. The subject matters discussed during this presentation were general in nature; those concerning these proceedings are reflected in the presentation materials attached, as well as the Comments filed by Motorola in these proceedings.

Copies of the materials distributed at this presentation are attached hereto.

Sincerely,

Mary E. Brooner
Manager, Wireless Regulatory Policy

MEB:aml

cc: The Honorable Rachelle B. Chong
Jane E. Mago

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List ABCDE

FCC Time Line

Dec. 1990	Application filed to construct, launch and operate Iridium system
June 1991	Other applicants filed
March 1992	International allocation of global MSS spectrum (WARC-93)
Dec. 1992	Experimental licenses granted
Nov. 1993	Domestic allocation of global MSS spectrum
Dec. 1993	Section 319(d) waiver requested by Motorola to maintain construction schedule
Jan. 1994	FCC's proposed licensing and service rules
July 1994	Staff defers ruling on waiver requests
Oct. 1994	Report & Order adopting Big LEO rules
Jan. 1995	Licensing of Big LEOs



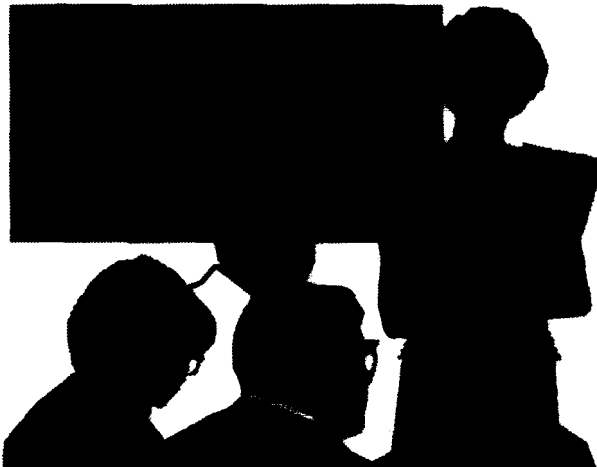
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Positions of Big LEO Applicants



- **Four-way Agreement**
 - Motorola
 - TRW
 - Constellation
 - MCH (Ellipsat)
- **Not Parties to Agreement**
 - Loral / Qualcomm
 - AMSC



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Essential Terms of Four-Way Agreement

- **Band segmentation plan***
- **Resolution of Glonass issue**
- **Globalization of band plan**
- **Relaxed qualification standards**
- **Section 319(d) waivers**
- **Out-of-band emissions mask**



*** Loral / Qualcomm has filed letter supporting agreement on band plan and lack of mutual exclusivity among applicants**



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SPECTRUM ALLOCATION: A KEY PART OF PLANNING FOR THE FUTURE

**STUART OVERBY
ASSISTANT DIRECTOR, SPECTRUM PLANNING
MOTOROLA GOVERNMENT RELATIONS
SEPTEMBER 16, 1994**



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**SERVICES AND TECHNOLOGIES
PROMOTED BY U.S. 800 MHZ
BAND ALLOCATIONS**

Trunked Dispatch

Cellular

Nationwide Paging

Mobile Data

Air-Ground



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WIRELESS TECHNOLOGIES: MARKET SEGMENTS

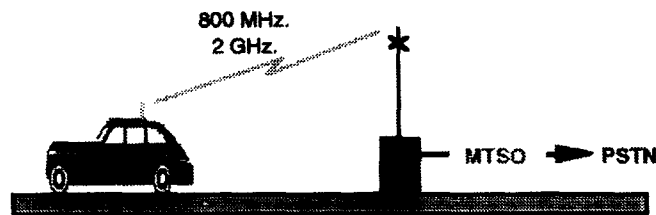
- **Large system, wide area, privately owned and operated (e.g., public safety, utilities, industrial operations)**
- **Small system, on-site, privately owned and operated (e.g., hotel & restaurant dispatch & paging, wireless PBX/LAN)**
- **Small system, wide area, shared cost (e.g., business community repeater dispatch)**
- **Carrier operated wide area (e.g., cellular, wide area paging, SMR, ESMR, PCS, MSS)**



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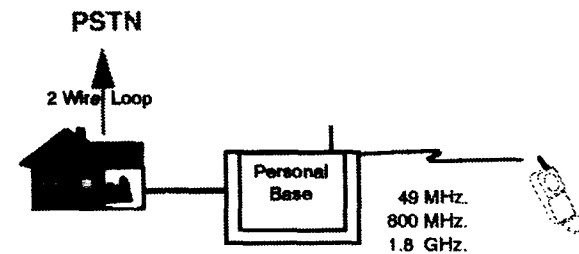
PCS Service Environments

1. Conventional Cellular Service



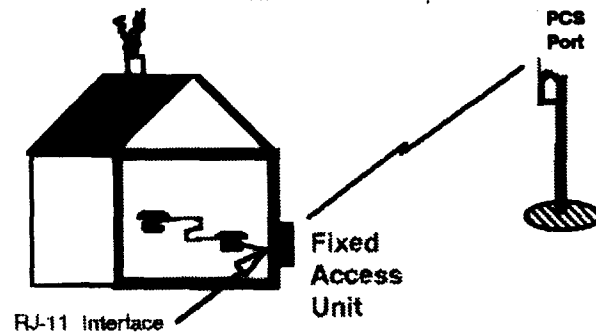
2. PCS Cordless

Handset Compatible With Public System

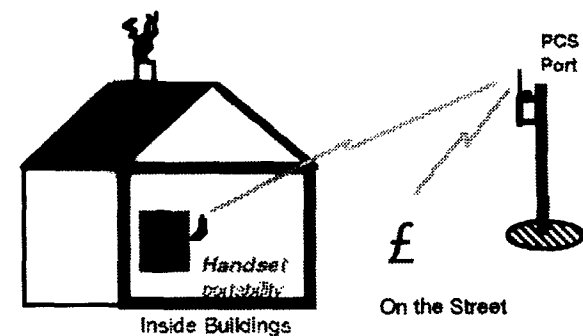


3. PCS Service to Conventional Wire Phones

Wireless Local Loop



4. PCS Service to a Handset





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Public Safety Public Service and Industrial Wireless Applications

- **Crime Control**
- **Health Care and Fire/EMS**
- **Energy Conservation and Management**
- **Pollution Control**
- **Improving Industrial Productivity**



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Crime Control

- **Mobile transmission of images to and from law enforcement field personnel**
- **Transmission of maps, floor layouts and architectural drawings**
- **Tactical use of live mobile video**
- **High resolution graphics info to vehicles**
- **Vehicle and personnel tracking systems**
- **Locator service "wireless dog tags"**





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Energy Conservation and Management

- **Advanced distribution automation**
- **Demand side management**
- **Pipeline monitoring**
- **Real-time monitoring, alerting and control of hazardous material handling**

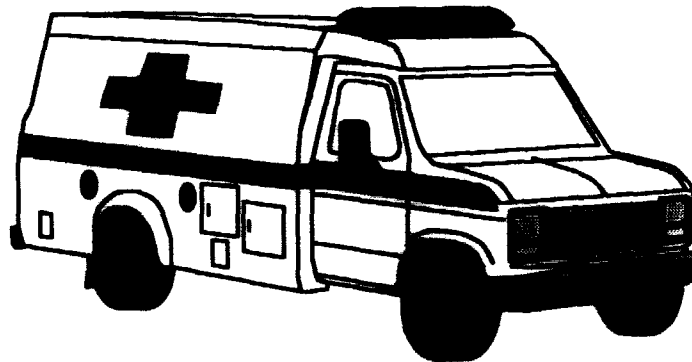




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Health Care and Fire/EMS

- **Remote monitoring of patients' vital signs**
- **Mobile transmissions of layouts**
- **Transmission of visual signals and physician instructions**
- **High-speed transmission of high-resolution medical imagery**

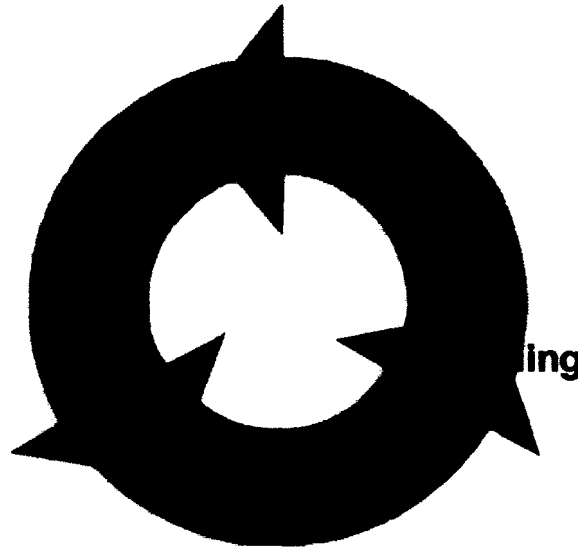




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Pollution Control

- **High resolution graphics transfer to mobile users**
- **Remote visual inspection of pipes and cables exposed during excavation projects**

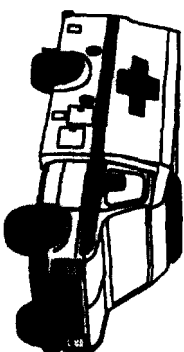




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CRITICAL ISSUE:

**Spectrum for Public Safety, Public
Service and Industrial Use**





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WHY DEDICATED PRIVATE SYSTEMS?

- **Control**
- **Grade of Service**
- **Coverage**
- **Custom Features**
- **Cost**